SAFETY DATA SHEET
according to Regulation (EG) no 1907/2006
Generic EU MSDS – No country specific data
REVISION DATE: 2014-06-26

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Product name: Artocarpus integrifolia Lectin (Jacalin)
Article number: 05-0133

1.2 Relevant identified uses of the substance or mixture, and uses advised against
Identified uses: Laboratory chemical

1.3 Details of the supplier of the safety data sheet
Company: Medicago AB
Danmark Berga 13
755 98 Uppsala
Telephone: +46 (0)18 56 11 80
Facsimile: +46 (0)18 56 11 88
E-mail address: info@medicago.se

1.4 Emergency telephone number
Emergency telephone number: Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)
Not classified

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

- Warning
H317 May cause an allergic skin reaction
H319 Cause serious eye irritation
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statement(s):
P261 Avoid breathing dust/fumes/gas/mist/vapours/spray
P280 Wear protective gloves/protective clothing/eye protection/face protection

Complementary hazard information
No further information

2.3 Other hazards
No data available

3. Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS-no.</th>
<th>EC-no.</th>
<th>Index-no.</th>
<th>Weight %</th>
<th>Classification according to constitution (EG) no 1272/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artocapus integrifolia lectin</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>85-100%</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
4. First aid measures

4.1 Description of first aid measures
If swallowed
Rinse mouth immediately with plenty of water; never give anything by mouth to an unconscious person; loosen tight clothing such as collar, tie, belt or waistband; get medical attention

If inhaled
Move to fresh air; if person is not breathing, give artificial respiration; if breathing is difficult, give oxygen; get medical attention

In case of skin contact
Wash off with soap and plenty of water; remove contaminated clothing and shoes; wash clothing before re-use; thoroughly clean shoes before re-use; get medical attention

In case of eye contact
Remove contact lenses if present and easy-to-so; wash eyes with plenty of clean water for at least 15 min as a precaution; get medical attention immediately

General advice
Get medical attention; show this data sheet to the doctor in attendance

4.2 Most important symptoms and effects, both acute and delayed
No data available

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media: dry chemical powder, water spray, fog or alcohol-resistant foam
Unsuitable extinguishing media: do not use water jet

5.2 Special hazards arising from the substance or mixture
Nitrogen oxides

5.3 Advice for fire fighters
Wear self-contained breathing apparatus for firefighting

5.4 Further information
No further information

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation; avoid breathing dust/mist/vapours/spray; keep away from heat and ignition; wear lab coat, safety goggles, suitable protection gloves and boots

6.2 Environmental precautions
Do not let product enter drains

6.3 Methods and material for containment and cleaning up
Use appropriate tool to put spilled material in convenient waste disposal container; finish cleaning by spreading water on the contaminated surface and ventilate the room

6.4 Reference to other sections
For disposal: see section 13

7. Handling and storage

7.1 Precautions for safe handling
Avoid dust formation; assure adequate ventilation where dust is formed; keep away from heat; avoid contact with skin and eyes; wash hands before and after use

7.2 Conditions for safe storage, including any incompatibilities
Store in a cool place in a tightly closed containers; recommended storage temperature is -20°C; use original container

7.3 Specific end use(s)
No data available
8. Exposure controls/personal protection

8.1 Control parameters
Contains no substances with occupational exposure limit values

8.2 Exposure controls
Appropriate engineering controls
Use general hygiene procedures; use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits; if user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

Personal protective equipment
Eye/face protection Wear safety goggles (EN 166)
Skin protection Use proper lab gloves; gloves must be inspected prior to use; wash and dry hands
Body Protection Wear lab coat or other impervious clothes; type of protection equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
Respiratory protection Use dust respirator if necessary; use respirator tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU)

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>white/light yellow, lyophilized powder</td>
</tr>
<tr>
<td>Odour</td>
<td>no data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>pH</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>no data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>no data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>no data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>no data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>no data available</td>
</tr>
</tbody>
</table>

9.2 Other information
No data available

10. Stability and Reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
No data available

10.6 Hazardous decomposition products
In case of fire: nitrogen oxides
11. Toxicological information

11.1 Information on toxicological effects
11.1.1 Substances

Acute toxicity
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
May cause skin sensitization

Germ cell mutagenicity
No data available

Carcinogenicity
No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity
No data available

Specific target organ toxicity – single exposure
No data available

Specific target organ toxicity – repeated exposure
No data available

Aspiration hazard
No data available

Potential health effects

- Inhalation: May be harmful if inhaled; may cause respiratory tract irritation
- Ingestion: May be harmful if swallowed
- Skin: May be harmful if absorbed through skin; may cause skin irritation
- Eyes: May cause eye irritation

12. Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects
No data available

13. Disposal considerations

13.1 Waste treatment methods
Waste must be disposed of in accordance with federal, state, and local environmental control regulations.
Contaminated packaging: dispose of as unused product
14. Transport information

14.1 UN-number
ADR-RID: -  
IMDG: -  
IATA: -  

14.2 UN proper shipping name
ADR-RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Not dangerous goods  

14.3 Transport hazard class(es)
ADR-RID: -  
IMDG: -  
IATA: -  

14.4 Packaging group
ADR-RID: -  
IMDG: -  
IATA: -  

14.5 Environmental hazards
ADR-RID: no  
IMDG, water pollutant: no  
IATA: no  

14.6 Special precautions for user
No data available  

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
No data available  

15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.  

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available  

15.2 Chemical safety assessment
No data available  

16. Other information

This information is based on the current state of knowledge.  
Precaution and disclaimer: For laboratory use only; not for drug, household, or any other use.